Size Comparison Chart.

Gauge	Cross-sectional area(nominal)			Diameter	
AWG	mm²	in²	CM	mm	mil
	253.4	0.3927	500MCM		
	202.7	0.3142	400MCM		
	152.0	0.2356	300MCM		
6/0	170.5	0.2643	336,500	14.73	580.1
5/0	135.2	0.2096	266,900	13.12	156.6
4/0	107.2	0.1662	211,600	11.68	460.0
3/0	85.01	0.1318	167,800	10.40	409.6
2/0	67.43	0.1045	133,100	9.266	364.8
1/0	53.49	0.08291	105,600	8.252	324.9
1	42.41	0.06573	83,690	7.348	289.3
2	33.62	0.05212	66,360	6.543	257.6
3	26.67	0.04133	52,620	5.827	229.4
4	21.15	0.03278	41,740	5.189	204.3
5	16.77	0.02599	33,090	4.620	181.9
6	13.30	0.02061	26,240	4.115	162.0
7	10.55	0.01635	20,820	3.665	144.3
8	8.367	0.01297	16,510	3.264	128.5
9	6.631	0.01028	13,090	2.906	114.4
10	5.261	0.008155	10,380	2.588	101.9
11	4.169	0.006461	8,226	2.304	90.7
12	3.309	0.005128	6,529	2.052	80.8
13	2.627	0.004072	5,184	1.829	72.0
14	2.082	0.003227	4,109	1.628	64.1
15	1.652	0.002561	3,260	1.450	57.1
16	1.308	0.002027	2,581	1.290	50.8

Gauge	Cross-sectional area(nominal)			Diameter	
AWG	mm²	in²	CM	mm	mil
17	1.040	0.001612	2,052	1.151	45.3
18	0.8233	0.001276	1,624	1.024	40.3
19	0.6529	0.001012	1,289	0.9119	35.9
20	0.5189	0.0008042	1,024	0.8128	32.0
21	0.4116	0.0006379	812.3	0.7239	28.5
22	0.3243	0.0005027	640.1	0.6426	25.3
23	0.2589	0.0004012	510.8	0.5740	22.6
24	0.2047	0.0003173	404.0	0.5105	20.1
25	0.1624	0.0002517	320.4	0.4547	17.9
26	0.1281	0.0001986	252.8	0.4039	15.9
27	0.1022	0.0001584	201.6	0.3607	14.2
28	0.08046	0.0001247	158.8	0.3200	12.6
29	0.06471	0.0001003	127.7	0.2870	11.3
30	0.05067	0.00007854	100.0	0.2540	10.0
31	0.04014	0.00006221	79.21	0.2261	8.9
32	0.03243	0.00005027	64.00	0.2032	8.0
33	0.02554	0.00003959	50.41	0.1803	7.1
34	0.02011	0.00003117	39.69	0.1600	6.3
35	0.01589	0.00002463	31.36	0.1422	5.6
36	0.01267	0.00001964	25.00	0.1270	5.0
37	0.01026	0.00001590	20.25	0.1143	4.5
38	0.008110	0.00001257	16.00	0.1016	4.0
39	0.006207	0.000009621	12.25	0.08890	3.5
40	0.004869	0.000007548	9.610	0.07874	3.1

Conversion table of Cross-sectional area

	mm^2	cir.mil	$inch^2$
mm^2	1	1973.5	0.001550
cir.mil	0.00050671	1	0.7854×10^{-6}
$inch^2$	645.16	1.2732×10^{6}	1

$1mm^2=1.973.5cir.mil=0.001550inch^2$

Table of allowable bending radius of cables.

Cable Group (Table on the right for product names.)	Allowable bending radius. (xOD)		
	Fixed wiring	Moving wiring	
		U-sharp (chain)	Bending
Moving Cable	4 D	6 D	6D
Cabtyre Cable	4 D	×	×
Signal,Control, Communication Cable	6 D	×	×
FA_Ethernet Cable※1	4 D	×	×
Single Wire(Moving)	2 D	6 D	×
Single Wire(FIX)	8 D	×	×

- The above allowable bending radius are limited to the types and sizes listed in TAIYO catalog.
  The composite cables and unit twisted cables, the above allowable bending radius are different.
- The values in the table are recommended values, not guaranteed values.
- The above allowable bending radius also apply to shielded products.

※1 FAMV (movable type) can be wired in U-shape.
Allowable bending radius is 6D.
※2 2PNCT single-core, allowable bending radius is 6D when wired to fixed.
※3 D=Cable overall diameter.(mm)

Moving Cable
EXT-II (/20276 , /2517 , /2501)
EXT-X/2501
EXT-3D(/2517 , /2586)
EXT-PREM/CMX/2517
EXT-01G(/20276 , /2517 , /2501)
CLEANSTAR MV
TBF(/2517 , /2501)
TURBO-FLEX(/2517 , /2501)
TTC-II /2501
Cabtyre Cable
UE/2517(N) , **UE/2517**(N)[Y/G]
UE/2501(N)/TC , **UE/2501E**(N)/TC[Y/G]
UE/2587-SB(N)[Y/G]
TC , TC-ER
UE/STO(N)/TC , **STO(A)**/TC
STOOW(A)/TC-ER , **SL-TVV**(STD5 , STD4)
SUNLIGHT (3DX , 3SX , 6DX , 6SX , ECO120)
VCT , VCTF
EM-ECTF/F
2PNCT※2 , **3PNCT**

Signal,Control,Communication Cable
HRF-SB/20276PEF
HP-SB/20276SR , **HK**/20276XL
CL2/2464-3599-DS
CM/2464(-1061/2A , -1007/2A)
SUNLIGHT DX , SUNLIGHT SX
SUNLIGHT SX-E
FA Ethernet Cable
FAMV-5E26(SB , SBX)
FAMV-6A26(SLAB/CM)
FAFX-5E25(SB , SBX , SLAB , SLAB/CM)
FAFX-6A26(SLAB)
FAFXQ-5E22(SLAB/CM)
FA-5E24(SLAB/CM) , **SFA-5E24**(SLA/CM)
FA-6A26(SLA/CM)
Single Wire(Moving)
UE/SSX1015 , UE/SSX83 , UE/SSX84
RFX-MTW , RFX-SB
Single Wire(FIX)
KIV , HKIV , HIV , EM-KIE/F
SSX10516 , UE/THHW